



118294

HE

## Attachment I

## PROTOCOL FOR REVIEW OF SITES

Name Aetna Chemical Corp.EPA I.D.# NTD 001471374

State I.D. #

No File (NF) Site or No SI (NS) Site (circle)

SI or PA or Other (circle)Date of Last Action 3/91Descriptive InformationOld HRS Score 25.92Pathway Scores GW 44.84 SW 0.00 SE(DC) N/A A 0.00

Event Qualifier (as may be in the file but not in CERCLIS)

PA / SI Information

## Nature of the Problem

Spills have contaminated the soil and ground water. High soil gas readings at site

## Pathways of Concern

Groundwater, Soil, and Air

Likelihood of Scoring (PA Method, HRS) &gt; 28.5.

- i. Actual/Obs. release to a media  
Air sampling showed soil gas readings on the OVA as calibrated to methane from 550ppm - 1,000ppm.
- ii. Targets (primary, secondary) Soil samples contained VOCs  
Primary targets for ground water + air  
Secondary targets for surface water  
No resident population for soil
- iii. HWC (hazardous waste characteristics)  
Soil had 1,1,1-trichloro ethane, toluene, xylene, naphthalene, 2-methylnaphthalene, barium, lead, cadmium, ethyl benzene

Information Adequate (H- definitely able to score, M- most likely able to score, L- unlikely able to score)Additional Information (that would aid in scoring)  
RequirementsAdditional sampling necessary to test ground-water at wells close to the site.  
Air releases are being emitted from above ground storage tanks.

Decision (G, S, NS, NF)

New CERCLIS Event Qual.

Groundwater

Suspected Release or No Suspected Release

Sampling

No sampling.

Primary Targets

Primary targets are 4 homes closest to the site in the direction of groundwater flow (N-NW).

Secondary Targets

Secondary targets identified.

Surface Water

Suspected Release or No Suspected Release

Sampling

No sampling

Drinking Water Threat

Primary Target Population

No primary population

Secondary Target Population

No secondary population

Human Food Chain

Primary Fisheries

No primary fishery

Secondary Fisheries

Secondary fishery is Saddle River

Environmental Threat

Primary Sensitive Environments

Secondary Sensitive Environments

} No sensitive  
environments

Soil Exposure

Suspected Release or No Suspected Release

Sampling

Soil samples had contaminants including 1,1,1-trichloroethane, toluene, xylene, naphthalene, 2-methylnaphthalene, barium, lead, cadmium, ethylbenzene

Resident Population Threat

Resident Population or Workers

No resident population  
30 workers present

Terrestrial Sensitive Environments

No terrestrial sensitive environments.

Air

Suspected Release or No Suspected Release

Sampling

Soil gas readings above background were recorded on the Organic Vapor Analyzer as calibrated to methane. Highest readings occurred around the aboveground tanks. They ranged from 55 ppm to greater than 1000 ppm. Ambient air was 8 ppm.

Primary Target Population

30 Workers and residents within 1/4 mile of site

Secondary Target Population

Secondary target population identified

Primary Sensitive Environment

Secondary Sensitive Environment

} No sensitive environments.

QA/QC:

Formal QA/QC review revealed the internal standard, perylene-dl2, was outside the quality control limits for a method blank, therefore, all positive and non-detect results in Soil-1 were rejected for the semi-volatile fraction.

File location:

Attachment F  
NJDEP, DHWM, BPA  
Trenton, New Jersey

RECOMMENDATIONS/CONCLUSIONS

Due to the high concentrations of contaminants detected in the soil samples and the regional groundwater contamination problem, it is recommended that monitoring wells be installed on site. This case will be referred to the NJDEP, DHWM, Bureau of Metro Enforcement for further investigation including the installation and sampling of monitoring wells and the excavation of contaminated soil. Additionally, it is recommended that a paved, diked containment area be constructed around the aboveground storage tanks.

Submitted by:

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August 20, 1990